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Suzuki et al.

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[54] OPTICAL FILM AND LIQUID CRYSTAL
DISPLAY DEVICE USING THE FILM

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359/50, 42, 599; 362/31, 330, 333; 385/146,
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[57] ABSTRACT

The luminance within the viewing angle of an LCD device is increased by using an optical film of transparent material. The film has a first surface having a wave structure including a plurality of isosceles triangle prisms arranged side-by-side, and a second surface having an optically rough structure for performing diffuse transmission. The film may also have a first surface having a structure including a plurality of quadrangular prisms arranged side-by-side, and a second surface having an optically rough structure for performing diffuse transmission.

7 Claims, 8 Drawing Sheets

